INTERNATIONAL SEARCH REPURT

Inti onal Application No PC 1/ IB2004/052588

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B19/00 E21B19/07 E04H17/26 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) E21B IPC 7 E04H Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ' US 3 797 570 A (LEUTWYLER K.US) 1,2,4, X 19 March 1974 (1974-03-19) 10-12, 17-19,28 figures 1,2,4 US 3 096 075 A (BROWN CICERO C) 1,2,4, Α 2 July 1963 (1963-07-02) 10-12, 17-19, 28,31 figures 1-8 Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 02/03/2005 21 February 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Schouten, A

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iformation on patent family members

Ini nal Application No
Pul/IB2004/052588

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| US 3797570 | Α | 19-03-1974 | NONE | | |
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Form PCT/ISA/210 (patent family annex) (January 2004)